

ENZ-004

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1

SEQUENCE LISTING

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<110> Schwartz, John J.
       Jacobson, Joseph
      Dasgupta, Ruchira
<120> Engineered Stimulus-Responsive Switches
<130> ENZ-004
<140> US 10/032,827
<141> 2001-10-23
<150> US 60/242,546
<151> 2000-10-23
<160> 20
<170> PatentIn version 3.0
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<211> 21
<212> PRT
<213> Artificial
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<223> Zinc finger consensus sequence
<220>
<221> misc_feature
<222> (2)..(3)
<223> wherein Xaa at positions 2, 3 can be any amino acid
<220>
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<222> (5)..(7)
<223> wherein Maa at positions 5, 6, 7 can be any amino acid
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<223> wherein Kaa at positions 9, 10, 11, 12, 13 can be any amino acid
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<223> wherein Xaa at positions 18, 19, 20 can be any amino acid
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10

ENZ-004 2 His Xaa Xaa Xaa His 20 <210> 2 <211> 22 <212> PRT <213> Artificial <220> <223> Zinc finger consensus sequence <220> <221> misc_feature <222> (2)..(4) <223> wherein Xaa at positions 2, 3, 4 can be any amino acid <220> <221> misc feature <222> (6)..(8) <223> wherein Xaa at positions 6, 7, 8 can be any amino acid <220> <221> misc_feature <222> (10)..(14) <223> wherein Xaa at positions 10, 11, 12, 13, 14 can be any amino acid <220> <221> misc_feature <222> (16)..(17) <223> wherein Kaa at positions 16, 17 can be any amino acid <220> <221> misc_feature <222> (19)..(21) <223> wherein Xaa at positions 19, 20, 21 can be any amino acid <400> 2 Cvs Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Leu Xaa Xaa His Xaa Xaa Xaa His 20 <210> 3 <211> 23 <212> PRT <213> Artificial <220> <223> Zinc finger consensus sequence

<223> wherein Xaa at positions 2, 3, 4, 5 can be any amino acid

<220>

<221> misc_feature <222> (2)..(5)

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3
ENZ-004
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      (7)..(9)
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<222> (11)..(15)
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<223> wherein Xaa at positions 17, 18 can be any amino acid
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<223> wherein Xaa at positions 20, 21, 22 can be any amino acid
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Xaa Xaa His Xaa Xaa His
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<222> (4)..(16)
<223> wherein Xaa at positions 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 1
      6, 17 can be any amino aci
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<223> wherein Xaa at positions 19, 20 can be any amino acid
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ENZ-004
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<223> primer for leucine zipper motif

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ENZ-004			5				
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atgggga	atgg	ggcagtcagg	cgttggtgct	ttatttaatg	gcatcaatgc	attaaatgct	180
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gagtato	gagt	accctgtttt	ttctcatgtt	caggcaggga	tgttctcacc	taagcttaga	360
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aagaaat	tag	ttggcgaacg	ctga				504
	13 35 DNA Art:	ificial					

<223> primer for coding sequence of a temperature sensitive form of the lambda repressor containing an AvaI sit

ENZ-004 6

	13 gcc	cgggtcagcc	aaacgtctct	tcagg			35
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		mer for the oda represso	coding sequ	uence of a t	cemperature	sensitive	form of
	14						
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aaaccat	taa	С					71
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tgaaaaa	aag	aaaaatgaac	ttggcttatc	ccaggaatct	gtcgcagaca	agatggggat	180
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gtaccct	.gtt	catcaccatc	accatcactt	ttctcatgtt	caggcaggga	tgttctcacc	420
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cagtgat	tct	gcattctggc	ttgaggttga	aggtaattcc	atgaccgcac	caacaggctc	540
caagcca	agc	tttcctgacg	gaatgttaat	tctcgttgac	cctgagcagg	ctgttgagcc	600
			gacttggggg				660
			tacaaccact				720
			ggaaagttat				780
	,	3 3 33		2 2 2		33	784
ctga							, 04

<210> 16

<211> 61

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ENZ-004			7			
	mer for cod repressor	ing sequenc	e of a temp	erature sen	sitive form	of lam
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atgaacttgg	cttatcccag	gaatctgtcg	cagacaagat	ggggatgggg	cagtcaggcg	180
ttggtgcttt	atttaatggc	atcaatgcat	taaatgctta	taacgccgca	ttgcttacaa	240
aaattctcaa	agttagcgtt	gaagaattta	gcccttcaat	cgccagagaa	atctacgaga	300
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ENZ-004 8

LN2-004	· ·	
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